

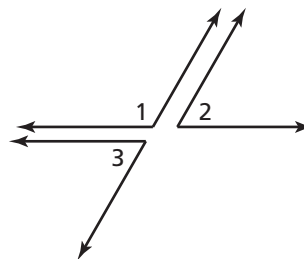
6.1

Practice A

1. Copy and complete the proof.
Then write a paragraph proof.

Given $\angle 1$ and $\angle 2$ are supplementary.
 $\angle 2 \cong \angle 3$

Prove $\angle 1$ and $\angle 3$ are supplementary.

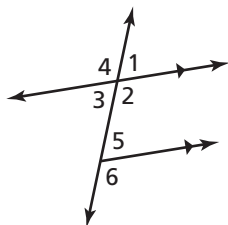


STATEMENTS	REASONS
1. $\angle 1$ and $\angle 2$ are supplementary. $\angle 2 \cong \angle 3$	1. Given
2. $m\angle 1 + m\angle 2 = 180^\circ$	2. _____
3. $m\angle 2 = m\angle 3$	3. Definition of congruent angles
4. _____	4. Substitution Property of Equality
5. $\angle 1$ and $\angle 3$ are supplementary.	5. Definition of supplementary angles

2. Copy and complete the flowchart proof. Then write a two-column proof.

Given $\angle 3 \cong \angle 5$

Prove $\angle 1 \cong \angle 5$



$\angle 3 \cong \angle 5$ \longrightarrow $\angle 3 \cong \angle 1$ \longrightarrow

Given

Translations map lines to parallel lines.

3. Your friend says that there is enough information to prove that $\angle AGB \cong \angle EGD$. Is your friend correct? Explain your reasoning.

